DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
U. S. ATOMIC ENERGY COMMISSION

MISCELLANEOUS GEOLOGIC INVESTIGATIONS
MAP I-127

PHOTOGEOLOGIC MAP
OF THE
ELK RIDGE-9 QUADRANGLE
SAN JUAN COUNTY, UTAH

By

C. F. Miller

Scale 1:24000

1 ½ 0 1 Mile

1956

EXPLANATION

- Qal — Alluvium — QUATERNARY
- Km — Mancos shale (?) — Upper Cretaceous — CRETACEOUS
- Kdb — Dakota sandstone and Burro Canyon formation, undifferentiated — Lower and Upper Cretaceous — CRETACEOUS
- Jmb / Jml — Morrison formation: Brushy Basin shale member, Jmb; Westwater Canyon sandstone, Recapture shale, and Salt Wash sandstone members, undifferentiated, Jml — Upper Jurassic — JURASSIC
- Js — Summerville formation — Upper Jurassic — JURASSIC
- Je — Entrada sandstone — Upper Jurassic — JURASSIC
- Jc — Carmel formation — Middle and Upper Jurassic — JURASSIC
- Jn — Navajo sandstone — JURASSIC
- Jk — Kayenta formation — JURASSIC(?)

Contact
Can be located within 30 feet horizontally.

Contact
Can be located within 30 to 200 feet horizontally.

Contact
Cannot be located accurately; probable error greater than 200 feet horizontally.

Probable contact

Strike and dip of beds
Computed by photogrammetric methods.

Approximate strike and dip of beds
Based on photointerpretation.

Strike of approximately vertical joints
Based on photointerpretation.

National forest boundary

Primary road

Secondary road

Trail

Roads as classified in this map series are as follows: Primary roads are maintained and graded, traversable by two-wheel-drive vehicles; secondary roads are traversable possibly by two-wheel-drive vehicles; trails are not traversable by four-wheel-drive vehicles except locally. When other information is lacking, roads are classified by their appearance on aerial photographs.

Base map from U. S. Soil Conservation Service map, Utah-326.

The aerial photographs used for photogeologic interpretation were taken in June 1950 and September 1952.

Stratigraphic column for this area modified from U. S. Geol. Survey Trace Elements Inv. Rept. 180, 1952; U.S. Geol. Survey Prof. Paper 188, 1938; and U.S. Geol. Survey unpublished material. Geographic and geologic field data from U.S. Geol. Survey topographic map, Elk Ridge quadrangle, Utah, 1940, and Prof. Paper 188.

This map has been compiled mainly from photogeologic data but has not been checked in the field; hence it has not had the benefit of thorough evaluation with respect to maps compiled entirely from field data.

ELK RIDGE QUADRANGLE

4	3	2	1
5	6	7	8
12	11	10	9
13	14	15	16

15° TRUE NORTH / MAGNETIC NORTH

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C., MR-1001

For sale by U. S. Geological Survey, price 50 cents

MISCELLANEOUS GEOLOGIC INVESTIGATIONS
MAP I-127